

Water-Data Report 2011

**11070070 Bautista Creek at Mouth near Valle Vista, CA**

Santa Ana River Basin

LOCATION.--Lat 33°45'44", long 116°54'30" referenced to North American Datum of 1983, Riverside County, CA, Hydrologic Unit 18070202, in San Jacinto Viejo Grant, on left bank, 40 ft upstream of Cedar Avenue Bridge, and 1.2 mi northwest of Valle Vista.

DRAINAGE AREA.--51.8 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 2006 to current year.

GAGE.--Water stage recorder with concrete channel control. Datum of gage is 1,680 ft above NGVD of 1929, from topographical map.

REMARKS.--Records poor. No regulation upstream from station. Sand and gravel operations upstream from station may reduce runoff and cause peak attenuation. Minor diversion upstream from station for irrigation and holding ponds for ground water recharge. See schematic diagram of Santa Ana River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 240 ft<sup>3</sup>/s, Dec. 22, 2010, gage height, 4.86 ft, from rating curve extended above 25 ft<sup>3</sup>/s on basis of step-backwater analysis; no flow or trickle flow below orifice for many days each year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft<sup>3</sup>/s and (or) maximum (\*), from rating curve extended as explained above:

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 22	0215	*240	*4.86
Dec 29	1315	200	4.76

**11070070 Bautista Creek at Mouth near Valle Vista, CA—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	0.19	0.03	0.00	0.00	0.00	0.00	0.00	0.04	0.02	0.05	0.05	0.06
<b>2</b>	0.04	0.01	0.00	0.22	0.02	0.00	0.02	0.06	0.03	0.09	0.04	0.04
<b>3</b>	0.10	0.07	0.00	0.31	0.00	0.00	0.00	0.06	0.07	0.12	0.02	0.04
<b>4</b>	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.08	0.13	0.07	0.05	0.03
<b>5</b>	0.12	0.05	0.23	0.00	0.05	0.00	0.00	0.08	0.10	0.11	0.04	0.04
<b>6</b>	0.06	0.08	0.06	0.00	0.08	0.00	0.02	0.13	0.10	0.05	0.06	0.02
<b>7</b>	0.03	0.22	0.00	0.00	0.04	0.00	0.84	0.12	0.04	0.12	0.03	0.02
<b>8</b>	0.08	0.04	0.00	0.26	0.00	0.01	0.01	0.06	0.11	0.07	0.03	0.03
<b>9</b>	0.27	0.01	0.02	0.00	0.00	0.04	0.00	0.09	0.07	0.09	0.03	0.01
<b>10</b>	0.21	0.02	0.01	0.00	0.24	0.00	0.02	0.08	0.07	0.08	0.05	0.02
<b>11</b>	0.27	0.03	0.03	0.00	0.20	0.00	0.00	0.08	0.07	0.06	0.01	0.04
<b>12</b>	0.33	0.01	0.01	0.00	0.04	0.01	0.00	0.08	0.05	0.03	0.06	0.07
<b>13</b>	0.30	0.06	0.04	0.02	0.04	0.02	0.00	0.07	0.07	0.11	0.04	0.04
<b>14</b>	0.27	0.07	0.02	0.13	0.01	0.00	0.00	0.04	0.06	0.11	0.06	0.08
<b>15</b>	0.24	0.06	0.04	0.38	0.01	0.00	0.00	0.05	0.07	0.10	0.02	0.04
<b>16</b>	0.23	0.06	0.86	0.10	0.52	0.00	0.00	0.04	0.09	0.14	0.01	0.04
<b>17</b>	0.33	0.03	0.42	0.00	0.00	0.00	0.00	0.06	0.07	0.14	0.02	0.05
<b>18</b>	0.34	0.04	2.5	0.00	2.3	0.01	0.00	0.46	0.05	0.11	0.01	0.03
<b>19</b>	1.8	0.03	0.65	0.00	6.0	0.00	0.02	0.00	0.05	0.08	0.03	0.01
<b>20</b>	0.79	2.2	12	0.00	0.96	0.69	0.00	0.01	0.05	0.05	0.02	0.04
<b>21</b>	1.5	1.6	14	0.01	0.00	4.3	0.01	0.01	0.12	0.06	0.00	0.04
<b>22</b>	0.14	0.01	93	0.00	0.00	0.22	0.01	0.04	0.05	0.03	0.00	0.04
<b>23</b>	0.00	0.09	9.6	0.01	0.00	1.4	0.00	0.02	0.05	0.05	0.01	0.03
<b>24</b>	0.00	0.25	0.02	0.00	1.3	0.02	0.01	0.03	0.03	0.05	0.01	0.10
<b>25</b>	0.11	0.02	0.29	0.00	0.23	0.13	0.00	0.02	0.03	0.04	0.02	0.16
<b>26</b>	0.01	0.02	0.50	0.00	11	0.00	0.00	0.08	0.16	0.05	0.03	0.08
<b>27</b>	0.10	0.06	0.07	0.00	0.00	0.01	0.02	0.05	0.10	0.07	0.12	0.09
<b>28</b>	0.03	0.22	0.02	0.00	0.00	0.00	0.02	0.03	0.03	0.05	0.06	0.10
<b>29</b>	0.01	0.05	11	0.00	---	0.00	0.03	0.01	0.04	0.04	0.19	0.22
<b>30</b>	0.12	0.00	0.00	0.46	---	0.00	0.06	0.02	0.04	0.08	0.03	0.10
<b>31</b>	0.03	---	0.00	0.20	---	0.00	---	0.03	---	0.75	0.06	---
<b>Total</b>	8.14	5.49	145.39	2.10	23.04	6.86	1.09	2.03	2.02	3.05	1.21	1.71
<b>Mean</b>	0.26	0.18	4.69	0.07	0.82	0.22	0.04	0.07	0.07	0.10	0.04	0.06
<b>Max</b>	1.8	2.2	93	0.46	11	4.3	0.84	0.46	0.16	0.75	0.19	0.22
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.00	0.01
<b>Ac-ft</b>	16	11	288	4.2	46	14	2.2	4.0	4.0	6.0	2.4	3.4

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2011, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	0.12	0.22	1.22	0.44	0.43	0.09	0.14	0.18	0.09	0.09	0.06	0.08
<b>Max</b>	0.26	0.44	4.69	1.08	0.82	0.22	0.43	0.41	0.18	0.14	0.11	0.11
(WY)	(2011)	(2008)	(2011)	(2010)	(2011)	(2011)	(2008)	(2008)	(2007)	(2007)	(2007)	(2007)
<b>Min</b>	0.03	0.06	0.09	0.04	0.16	0.00	0.02	0.02	0.03	0.02	0.02	0.05
(WY)	(2010)	(2010)	(2007)	(2009)	(2010)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2008)

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	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>	<b>Water Years 2006 - 2011</b>	
<b>Annual total</b>	215.56	202.13		
<b>Annual mean</b>	0.59	0.55	0.26	
<b>Highest annual mean</b>			0.55	2011
<b>Lowest annual mean</b>			0.13	2009
<b>Highest daily mean</b>	93 Dec 22	93 Dec 22	93 Dec 22	2010
<b>Lowest daily mean</b>	0.00 Jan 1	0.00 Oct 23	0.00 Nov 29, 2006	
<b>Annual seven-day minimum</b>	0.00 Jan 28	0.00 Feb 27	0.00 Feb 5, 2008	
<b>Maximum peak flow</b>		240 Dec 22	240 Dec 22	2010
<b>Maximum peak stage</b>		4.86 Dec 22	4.86 Dec 22	2010
<b>Annual runoff (ac-ft)</b>	428	401	191	
<b>10 percent exceeds</b>	0.34	0.27	0.26	
<b>50 percent exceeds</b>	0.03	0.04	0.04	
<b>90 percent exceeds</b>	0.00	0.00	0.00	

